

## Storm Data and Unusual Weather Phenomena

Time Interval	Path Number	Path Width	Number of Birds	Estimated Density
0600-0630	1	100	1	0.01
0630-0700	1	100	1	0.01
0700-0730	1	100	1	0.01
0730-0800	1	100	1	0.01
0800-0830	1	100	1	0.01
0830-0900	1	100	1	0.01
0900-0930	1	100	1	0.01
0930-1000	1	100	1	0.01
1000-1030	1	100	1	0.01
1030-1100	1	100	1	0.01
1100-1130	1	100	1	0.01
1130-1200	1	100	1	0.01
1200-1230	1	100	1	0.01
1230-1300	1	100	1	0.01
1300-1330	1	100	1	0.01
1330-1400	1	100	1	0.01
1400-1430	1	100	1	0.01
1430-1500	1	100	1	0.01
1500-1530	1	100	1	0.01
1530-1600	1	100	1	0.01
1600-1630	1	100	1	0.01
1630-1700	1	100	1	0.01
1700-1730	1	100	1	0.01
1730-1800	1	100	1	0.01
1800-1830	1	100	1	0.01
1830-1900	1	100	1	0.01
1900-1930	1	100	1	0.01
1930-2000	1	100	1	0.01
2000-2030	1	100	1	0.01
2030-2100	1	100	1	0.01
2100-2130	1	100	1	0.01
2130-2200	1	100	1	0.01
2200-2230	1	100	1	0.01
2230-2300	1	100	1	0.01
2300-2330	1	100	1	0.01
2330-2400	1	100	1	0.01
2400-2430	1	100	1	0.01
2430-2500	1	100	1	0.01
2500-2530	1	100	1	0.01
2530-2600	1	100	1	0.01
2600-2630	1	100	1	0.01
2630-2700	1	100	1	0.01
2700-2730	1	100	1	0.01
2730-2800	1	100	1	0.01
2800-2830	1	100	1	0.01
2830-2900	1	100	1	0.01
2900-2930	1	100	1	0.01
2930-3000	1	100	1	0.01
3000-3030	1	100	1	0.01
3030-3100	1	100	1	0.01
3100-3130	1	100	1	0.01
3130-3200	1	100	1	0.01
3200-3230	1	100	1	0.01
3230-3300	1	100	1	0.01
3300-3330	1	100	1	0.01
3330-3400	1	100	1	0.01
3400-3430	1	100	1	0.01
3430-3500	1	100	1	0.01
3500-3530	1	100	1	0.01
3530-3600	1	100	1	0.01
3600-3630	1	100	1	0.01
3630-3700	1	100	1	0.01
3700-3730	1	100	1	0.01
3730-3800	1	100	1	0.01
3800-3830	1	100	1	0.01
3830-3900	1	100	1	0.01
3900-3930	1	100	1	0.01
3930-4000	1	100	1	0.01
4000-4030	1	100	1	0.01
4030-4100	1	100	1	0.01
4100-4130	1	100	1	0.01
4130-4200	1	100	1	0.01
4200-4230	1	100	1	0.01
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Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property Crops	Character of Storm
<b><u>NEW MEXICO Southeast</u></b>								
Eddy County 2 NW Carlsbad	11	1633MST			0	0	1K	Thunderstorm Wind (G56)
A multicell storm with wet downbursts downed trees in Carlsbad. Winds within one mile of the trees were clocked at 64 mph.								
Lea County Lovington	12	1530MST 1830MST			0	0		Flash Flood
Heavy rains in and around the Lovington area caused localized flash flooding in the late afternoon and evening.								
Lea County 30 WNW Jal	12	1830MST 2200MST			0	0		Flash Flood
Eddy County 20 E Loving	12	1930MST 2230MST			0	0		Flash Flood
Heavy tropical rains caused flooding on State Highway 128 near the Eddy/Lea County line.								
Lea County 7 NNW Hobbs	12	1930MST			0	0	3K	Lightning
Lightning struck the chimney of a house north of Hobbs and caused damage to both the interior and exterior of the house. One side of the upper portion of the chimney was blown off as the bolt struck there. The bolt also traveled along the inside of the chimney and blew out the front of the fireplace sending soot and ashes into the living room With the lightning never connecting to any utility lines, the power and telephone service were never interrupted								
Eddy County Malaga	22	1815MST			0	0	1K	Thunderstorm Wind
Downbursting winds from a thunderstorm ripped a metal roof off a 1500 ft storage building.								
<b><u>TEXAS WEST</u></b>								
Brewster County 1 N Alpine	04	1655CST			0	0	10K	Thunderstorm Wind
A thunderstorm moving over the city of Alpine collapsed producing a wet microburst that blew the roof off a trailer, overturned a carport, and knocked down sheds. The storm was not moving extremely fast (at 18kt) but was the fastest moving of the 44 cells on the MAF radar. The storm dumped half its volume in one 6 minute scan with the VIL dropping from 38 to 19 kg/m2. The debris was Blown in the direction of the storm movement (NE-SW).								
Ector County Pleasant Farms	10	1505CST			0	0		Thunderstorm Wind (G52)
Midland County 6 ESE Midland	10	1520CST			0	0	10K	Thunderstorm Wind
Scattered damage was caused by a microburst along State Highway 158. Of note was the fact that the storms in the area were moving to the north but the most damaging winds blew debris to the south. A pole barn was blown across a couple of fields and dead trees were knocked down.								
Although the sounding showed an inverted-V, suggesting dry microbursts, the information also showed 1.36 inches of precipitable moisture over 130% of normal These factors combined to have evaporation and water drag for downbursting. The radar in the local area of the storms was dotted with small thunderstorms -within a radius of 30 miles there were 20-25 storms at the time of the damage.								
Brewster County 17 NE Study Butte	11	1615CST			0	0	3K	Thunderstorm Wind
A wet microburst destroyed two cab-over pickup truck trailers. One trailer was thrown over utility lines into an adjacent yard while the Other trailer was thrown into a utility pole.								
Midland County 4 SW Midland	12	1520CST 1730CST			0	0		Flash Flood
Heavy rains over the southern half of Midland flooded streets With deep water in some areas. Water was running downhill on Midland Drive toward a drainage area, and converging waters at the drainage area caused a piling of the running water to a depth of about 3 feet on the Business I-20 access road.								

# Storm Data and Unusual Weather Phenomena

August 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TEXAS West</u>									
Pecos County Girvin	15	1813CST			0	0	4K		Thunderstorm Wind (G52)
A cell among a multicell cluster moving to the northeast in northern Pecos County produced microburst winds that damaged structures in the Girvin community. A 2-foot section of the south wall of a house was partly separated from the flooring as upward forces by the wind on the eaves tried to lift the wall from its connection with the floor. An old convenience store had 2/3 of its corrugated roof blown off by the wind and other parts of the roof curled up. A 30x10 foot goat pen was moved and overturned on the north end of the property. The pen was open on the south side allowing the wind to enter freely but the wind was trapped by the other walls. The pen was moved approximately 12 feet to the north and rolled 1/4 turn onto the back wall. All of the debris was blown to the northeast.									
The cluster of storms developed near the dry line and moved to the northeast at about 20 mph. The cell that caused the damage had indications of a weak elevated meso on the MAF 88D that dissipated before moving into the Girvin area. In the vicinity of the storms, surface temperatures were in the mid 90s with dew points in the lower 60s. The storm survey resulted in assigning the estimated wind speed of 60 mph.									
Mitchell County 5 SW Colorado City	16	1715CST 1730CST			0	0	50K		Thunderstorm Wind
Winds blew down several trees and power lines at Lake Colorado City.									
5 SW Colorado City	16	1720CST			0	1			Lightning
Lightning strikes at Lake Colorado City injured a young girl who suffered burns on her arm.									
Dawson County 17 SW Lamesa	17	2200CST			0	1	8K		Thunderstorm Wind (G65)
A microburst in southwest Dawson County caused damage on a couple of properties. One metal shed and two wooden sheds were destroyed by the winds. A greenhouse was heavily damaged and a travel trailer with two occupants was pushed up against an adjacent barn. One of the occupants sustained slight injuries to both of his knees from flying objects in the trailer. Corrugated metal was strewn around the area as well. Farther south a water pump was wrenched from its connections and was irreparable.									
A damage survey was accomplished finding a divergent pattern over an area about 1/2 mile wide. On the northeastern end of the damage, debris was blown to 310 degrees versus the water pump (to the south) was blown to 228 degrees. The damage survey team estimated a wind speed of 65 kt.									
Howard County Big Spring	18	1530CST			0	0			Hail (0.75)
Jeff Davis County 35 NNW FT..Davis	18	1615CST			0	0	0.50K		Thunderstorm Wind
Downbursting winds blew a trampoline 100 yards.									
Dawson County Friendship	18	1700CST 1900CST			0	0			Flash Flood
Very heavy rains from thunderstorms flooded the intersection of FM 2051 and FM 829 in the Friendship community of southwestern Dawson County. The intersection flooded up to 3 feet deep with both water and thick mud.									
Midland County 4 NW Midland	18	1742CST			0	0			Hail (0.75)
Midland County Maf	18	1749CST			0	0			Thunderstorm Wind (G56)
Midland County 2 N Midland	18	1756CST			0	0	10K		Thunderstorm Wind
Damaging outflow winds from thunderstorms knocked down trees and power lines in Midland.									
Midland County 1 S Maf	18	2015CST 2100CST			0	0			Flash Flood
An underpass on Business I-20 was flooded and closed after heavy rains fell over the area.									
Pecos County Imperial	18	1751CST			0	0	1K		Thunderstorm Wind
Downbursting winds blew shingles off of houses.									
Ector County Pleasant Farms	18	1825CST			0	0			Thunderstorm Wind (G55)
Ector County Odessa	18	1930CST 2030CST			0	0			Flash Flood
West County Rd. on the west side of Odessa became flooded with the deepest water between 12th and 13th Streets. Also cars were stalled in high water near the Pueblo and 10th St. intersection.									

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August 1997									
Location	Date	Time Local/ Standard	Path LENGTH (MILES)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>TEXAS West</u>									
Glasscock County St Lawrence	18	2004CST			0	0			Thunderstorm Wind (G52)
	A Sheriff's Deputy estimated 60 mph outflow winds that almost blew his vehicle off the highway.								
Howard County 8 NE Big Spring	22	2156CST 2330CST			0	0			Flash Flood
	Flooding on State Highway 350 northeast of Big Spring resulted in stranded autos. The flooding was over a 2 mile stretch in various low spots, with the longest and deepest area being about 1 /4 mile long.								